

ABSTRACT

The invention relates to a wall element for a magnetically shielded room and to a magnetically shielded room. The wall element comprises at least one first layer (1) which is formed of metal plate having a high electrical conductivity, and at least two layers, a second layer (2) and a third layer (3), which consist of metal plates having a high magnetic permeability. The layers (1, 2, 3) are superimposed one on top of another in surface contact with each other without any separating air gaps, so that each first layer (1) having a high electrical conductivity lies between each second (2) and third layers (3) having a high permeability substantially in surface contact with the second and third layers, the layers together forming a compact structure in which the product ($\sigma \times \mu$) of electrical conductivity (σ) and permeability (μ) is maximized so as to minimize the penetration depth of magnetic interference.